





Linear -> Linear means line.	9
What is linear relationship?	4
→ A linear relationship (or linear association) used to describe a straight line relationship between a variable and a constant, which follow y=mx+c.	
Use of linear relationship?	
It is a correlation, which describe how one variable changes in linear relation or fashion to changes in another variable.	
Example of Linear relationship -> 1) calculate distance travelled by rate of	
speed over person of the	
speed over period of time. 1) Price of house given the area of the house.	
- Regression and was an analy of the same	
- Regression analysis can result in linear or non linear graphs. -> Linear regression -> Relationship between variables can be described with a straight line.	
Linear regression -> Relation ship between variables can be described	
with a straight line.	
→ Non linear regression → It cannot be defined by straight line.	
Types of Linear Rigression -	
1) simple linear regression - 1 dependent variable (nterval or ratio)	
Types of Linear Regression - 1 dependent variable (interval or ratio) 1 independent variable (interval or ratio or 1 independent variable (interval or ratio or 1 dependent variable (interval or ratio)	
2) Multiple linear regression - 1 dependent variable (interval or ratio) 2+ independent variables (interval or ration or dichotomous).	
2+ independent variables (interval or ration or	
dichotomous).	•
3) Logistic regression - 1 depentit variable (dichotomous)	
2+ Independent Variable(s) (interval / Taho/dichotomous)	
4) Ordinal regression - 1 dependent variable (ordinal)	
1) Ordinal regression - 1 dependent variable (ordinal) 1+ independent variable (nominal/dichotomous)	
E) Multipage - 1 decode to year black of	
5) Multinomial regression - 1 dependent variable (nominal)	
IT independent variable(s) (interval/ratio/dichotomous)	
6) Discriminat analysis - 1 dependent variable (nominal)	
6) Discriminat analysis - 1 dependent variable (nominal) 1+ independent variable(s) (interval/ratio).	
and a set of a set into two mutually exclusive subset	
Victotomy is a simple a spirit of a serior subset	
whose union is so the original set.	
Dichotomy is a simpley a split of a set into two mutually exclusive subset whose union is at the original set. Nominal data are normally nouns, with no order in them. Eg - Country, gender etc. Ordinal data comes with level of orders. Eg - First, Second, Third etc.	